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Bray Trunnion Mounted

Brand: Bray

Short Description

Emergency stem sealant injection Emergency seat sealant injection Drain and vent ports Double block and bleed Internal trunnion design

Description

Emergency stem sealant injection: this standard feature allows the valve's stem housing to be adapted with a grease fitting to inject sealant during emergency scenarios, providing protection against unplanned spikes in operating conditions. Emergency seat sealant injection: this optional feature allows the valve's end connections to be adapted with a grease fitting to inject sealant. This creates a positive seal in the case of seat leakage due to service impurities or unplanned spikes in operating conditions. Drain and vent ports: drain ports located at the bottom of the valve release any fluid trapped in the body cavity of a closed valve. Vent ports located at the top of the body cavity eliminate any gas trapped in the body cavity of a fully closed valve. Both play a key safety role in double block and bleed and/or double isolation and bleed valve configurations. Double block and bleed: this safety feature eliminates the buildup of pressure due to high pressure media trapped in the valve's body cavity, even while the valve is in the fully closed position. Firesafe design: secondary metal seat design provides a firesafe shut off per api 607. Additionally, secondary graphite body seals and flexible graphite packing prevents leakage through the body joints and stuffing box, respectively. Internal trunnion design: upper and lower bearing plates hold the ball in place, preventing the ball from floating axially and avoiding excess load on the seats. External trunnion design available in certain sizes. Pressure energized stem packing: our proprietary energizer ring, located above the primary o-ring stem seal, provides insurance in the rare event that the o-ring is damaged by using the media pressure to create an upward compressive force on the

packing. This upward force on the packing combined with the downward compressive force created by tightening the packing gland results in a larger net compressive force on the packing and better seal than a typical packing design. Double seals on body joints: primary elastomeric seals ensure zero leakage in standard operating conditions. Secondary graphite seals ensure proper body joint sealing per api 607 in extreme temperature scenarios. Anti-static devices: standard anti-static devices ensure electrical continuity between the ball, stem, and body, eliminating the possibility of sparks within the valve created by static electrical charges. Valve position indication: clear stamping on the outer diameter of the mounting flange identifies the open or closed position of the valve based on the stem key orientation. Iso 5211 mounting pad: robust iso 5211 mounting pad provides quick conversion between the valve and the automation package. Blowout-proof stem design: valves are designed with stem/body connection preventing stem blowout under line pressure.